











```
var flag = window.confi.m("submit the credit card info?");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  if (get_card_info.card_num_length != 16)
aler: ("visa and master should have 16 digits");

caud_info" method="post" action="http://payment.asp">
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            if (get_carc_info.card_type.ralus == "amex") {
   if (get_card_info.card_tum.tength: 15)*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  alert ("amex should have it digits");

</pr
                                                                               <option value="amex">American Express</option>
                                                                                                                                                                                                                                                            <a href="logitype="fext" name="card_num" width="30"</a>

    > < ppton vstue="ms"> MasterCard < /option>

                                                                                                                                                                                                                                                                                                             onChangen"handle()" /> </br/>
chput dype="text" name="expiry_date" />
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              get_card_info.submit();
                                                                                                                          <organization value="visa">Visa</option>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         function verify() (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    function handle() (
                                       <select name="card_type">
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         if (flag)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                } 31se
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            <surpside ciffunation
                                                                                                                                                                                                                                                                                                                                                                                                                                                          V. (10) 7.9.V
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     </script>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             </html>
```

```
270
        <html>
            <form |G="gat_card_info" method="post" action="http://payment.asp">
              <select name="said_%ype" onClick="talk(g_card_types)">
                ടാറ്റ്റോ value="amex">American Express</option>
                coption value="visa"> Visa</ption>
                coption value="mo"> %ascorCard</prion>
                                                                                --280
              </select>
             <reco id="g_card_types"onReco = "handle()" >
               < grammar src="./gram#card_types" />
290 --
              </reco >
               <input type="text" name="sard_num" width="30"
                 onClick="talk(g_card_nom)"/>
              <reco id="g_card_num "onReco = "handle()" >
                                                                                -282
               <grammar src=" -/græm#digits" />
              </reco >
              <input type="text" name="empiry_date" -</pre>
                 onClick="talk(g_expary_date)" />
              <reco id="g_axpiny_date">
                                                                                 - 284
               < grammar src =" ./gram#dates"/>
              </reco >
              <input type="submit" value="Submit" onClick="verify()" />
            <script> <![CDATA[
                    function talk(gobj) {
                        gobj.activate():
   272
                    function handle() {
                        if (get_card_info.card_num != null) {
                           if (get_card_info.card_type.value == "amex") {
                               if (get_card_info.card_num.length != 15)
                                 alert ("amex should have 15 digits");
                           } else
                              if (get_card_info.card_num.length != 16)
                                 aier ("visa and master should have 16 digits");
                    function verify() {
                        var flag = window.confirm("submit the credit card
                 info?*\:
                        if (flag. {
                              get card_info.submit();
                   3
             ]]>
            </script>
         </html>
```

```
< body >
              < form id = " get_card_inte " method = " post" sector = " http://payment.pap "
                  onActivate = " walcom() ">
              < prompt id =" [_wolcome "> We now need your credit card | </ prompt >
              < prompt id = " p_mumble "> Edidn't understand you </ prompt >
300
               < gramptid = "p ൂരണ്ട് type " bargein = " trus "> What credit card would you
          zucii </ prompt>
               is prompt id =" \rho in = 2, we see " bargein =" true"> Please say the number" - </ prompt >
               < prompt U =" p_amplog_disker" bargein =" true"> What is the expiration
          danc? 
              ''< prompt id =" p_cantent ">
303 -
                   I have your < value select = " card_type " /> < value select = " card_num " />
                   with expiration date
                 < value select = " ompiny_data " />
               < prompt id = " p_ac affrm "> Is this correct? </prompt>
               </reco >
               < reco id =" @_dsrd_num " onNoReco =" mumble(this, 1) ">
  onReco =" _f...ndle(this, card_num) "/>
                < gramman src =" ./e--==#digits " />
              305----
                                       /ify_date) " audio = "rao " />
                on&200 ="
               =" confirmed(ខ្ញុំារ៉ុន) "/>
                 < grammar src=" . @rass≈yesno "/>
                </reco >
< select ...ame = " card_@kj. ` ">
                   < option value = "ame" > American Express </ option >
                   < option value = "vise '> Visa </ option >
                   < option value ="‱s"> ੴ≋s‱cCard </ option >
                 </ seiect >
                 -< input type = "נֹבּצְצָ" name = " card_num " width = " 30 " />
                 < input type = "RemR" name = "expiry _ date "/>
                 < input type = "submit" talue = "Submit"/>
               < / form >
              < script > <![CDATA[
                     function welcome() (
                      p_welcome.sctima();
                      repart = 0:
                       checkFilled();
  302
                      function mumble (g bj, maxprompts) {
                       gobj.dsactimeta():
                       p_numble.activa();
                      checkFil led();
                    TO FIG. 88
                                                       FIG 9A
```

Ÿ,

```
function _handle() {
    liandle();
    checkFilled();
}

function checkFilled() {
    if (card_type.value == "") {
        p_card_type.active(); return;
}

    if (card_num.value == "") {
        p_expiry_date.value == "") {
            p_expiry_date.active(); g_card_num.acti vate(); return;
}

    if (expiry_date.value == "") {
        p_expiry_data.active(); g_expiry_date.activate(); return;
}

    p_content.activate();
    p_confirm.activate();
}

function confirmed(gcbj) {
        if (gcbj.recogRes.text == "yes")
            get_card_info.submit();
}

// user codes start here

function handle() {

    if (get_card_info.card_type == "amex") {
        if (get_card_info.card_num.length != 15) {
            prompt.speak ("amex should have 15 digits");
            get_card_info.card_num = "";
    } else
    if (get_card_info.card_num.length != 16) {
            prompt.speak ("visa and master should have 16 digits");
            get_card_info.card_num = "";
}

*/Script>

*/Body>
```

```
<body>
    <form id="get_card_infe" method="post" action="http://payment.asp"</pre>
       onactivate="welcome()">
       sprcmpkid="p_welcome">We now need your credit card/prompt>
       ្សាក្សា ក្រុងស្វារ្យាជាមេរិទ">នី didn't understand you</prompt>
       spropoled iti="p_card_type" bargein="true">What credit card would you
use?
       card_num* bargein="true">Please say the number/prompt>
       date?</prompt>
       content">
        I have your <value select="card_type" /><value select="card_nem" />
  with expiration date <value select="expiry_date" />
       confirm">Is this correct?
       <reco id="g_get_card_info" onReco="_handle()" onNoReco ="mumble(this)">
    <grammar     src ="./gram/getPayment" >
         <br/>
<br/>
ding target="card_type" value="/card/type"/>
         <br/><br/>dind target="card_num" value="/card/number" />
         <bind target="expiry_date" value="/card/expr_date" />
       </reco>
       <reco id="confirmation" onReco ="confirmed(this) onNoReco ="mumble(this)" />
        <grammar src ="./gram#yesno"/>
       </reco > <select name="card_type">
         <option value="amex">American Express</option>
         <option value="visa">Visa</option>
         <ortion value="ms">Master(_ard/cption>
       </select>
       <input type="text" name="sand_num" width="30" />
       <inout type="text" name="expiry_date" />
       <!nput type="submit" value="Submit" />
    </form>
    <script><![CDATA]
function welcome()</pre>
          p_welcome.active();
          repeat = 0;
checkFilled():
         function mumble(gobj) {
          gobj.deactivate();
p_mumble.active();
checkFilled();
                                                  FIG. 10A
         function_handle() {
          handie
           checkFilled();
      TO FIG. 102
```

FIG. 10B

```
SAMPLE ASP+ PAGE
<%@ Page language="Jscript" AutoEventWireup="false" Inherits="Credit.Transaction" %>
<html><head>
<!-- ASPX page for both voice-only & multimodal credit card example -->
<script>
function handle() {
         if (field == get card info.card_num) (
            if (get_card_info.card_num.length != 15) {
              p. compt. speak ("amex should have 15 digits");
              conjected_info.card_num = "";
         } else
            if (get card info.card num.length != 16) {
              prompt.speak ("visa should have 15 digits");
              get_card_info.card_num = "";
       }
function gensml() {
       str = '<sml><credit card><card type>';
       str += card_type.value; str += '</card_type><number>';
       str += card number.value; str += '</number><expire>';
       str += expiry_date.value; str += '</expire></credit_card></sml>';
       return str;
}
</script>
<script runat="server">
function Page Load (obj, args) {
       if (PostBack) {
          validator = new System.Speech.SMLValidator("./CreditSDL.xml");
          dsml = validator.Evaluate(args);
          Navigate (ChousePage (dsml));
       } else {
         // initialize fields with args
</script>
</head>
<body>
<speech.form id="get_card_info" style="system_initiative"
    prompt="./prompt/getPayment" obsubmit="gensml()">
  <speech:chedit name="card_type" prompt="What credit card would you use?"
    grammey="./gram#card_types" ouThraseFinish="handle()"</pre>
       <option>Pmerican Express</option>
       coption> Visa
       </speech:chcice>
  <speech:textbox name="card_number" prompt="Please say the number"</pre>
       gramma. = "./gram#digits" om PhraseFinish="handle()">
  <speech: textrox name="expiry date" prompt="What is the expiration date? "</pre>
       grammar="./gram#dates" onPhraseFinish="handle()"/>
</speech:foxu>
</bcdç>
</html>
```





